

## CLAIMS

What is claimed is:

1           1.     A method comprising:  
2           receiving from a first entity transport information and an identifier of a memory  
3     location of a message to a second entity;  
4           storing in a different memory location the transport information and the identifier  
5     of the memory location of the message; and  
6           transmitting to the second entity based on the transport information a different  
7     identifier of the different memory location.

1           2.     The method of claim 1, further comprising:  
2           receiving the different identifier of the different memory location from the second  
3     entity;  
4           retrieving from the different memory location the identifier of the memory  
5     location of the message; and  
6           providing the identifier of the memory location of the message to the second  
7     entity.

1           3.     The method of claim 2, wherein the first entity comprises a client software  
2     application.

1           4.     The method of claim 3, wherein the second entity comprises a server  
2     software application.

1           5.       The method of claim 4, wherein the memory location comprises a  
2       serialized data stream (SDS) and the different memory location comprises a different  
3       SDS.

1           6.       The method of claim 5, wherein the identifier comprises a token and the  
2       different identifier comprises a different token.

1           7.       A method comprising:  
2       storing by a client a message in a message serialized data stream (SDS);  
3       receiving by a first component of a channel from the client transport information  
4       and a token for the message SDS;  
5       packaging by the first component of the channel the message SDS token and the  
6       transport information in an envelope SDS; and  
7       transmitting by the first component of the channel an envelope SDS token to a  
8       server based on the transport information.

1           8.       The method of claim 7, further comprising:  
2       receiving by a second component of the channel from the server the envelope SDS  
3       token;  
4       extracting by the second component of the channel the transport information from  
5       the envelope SDS;  
6       providing by the second component of the channel the transport information to the  
7       server;

8 extracting by the second component of the channel the message SDS token from  
9 the envelope SDS; and  
10 providing by the second component of the channel the message SDS token to the  
11 server.

1 9. The method of claim 8, further comprising:  
2 extracting by the server the message from the message SDS;  
3 providing by the server the message to a service;  
4 providing by the service a reply to the message; and  
5 packaging by the server the reply in a reply SDS.

1 10. The method of claim 9, further comprising:  
2 receiving by a third component of the channel from the server a reply SDS token;  
3 receiving by the third component of the channel from the server the transport  
4 information;  
5 packaging by the third component of the channel the reply SDS token and the  
6 transport information in a response SDS; and  
7 transmitting by the third component of the channel a response SDS token to the  
8 client based on the transport information.

1 11. The method of claim 10, further comprising:  
2 receiving by a fourth component of the channel from the client the response SDS  
3 token;

retrieving by the fourth component of the channel the reply SDS token from the response SDS;  
providing by the fourth component of the channel the reply SDS token to the client, which extracts the reply from the reply SDS.

12. An article of manufacture comprising:  
a machine-accessible medium including thereon sequences of instructions that, when executed, cause an electronic system to:  
receive from a first entity transport information and an identifier of a memory location of a message to a second entity;  
store in a different memory location the transport information and the identifier of the memory location of the message; and  
transmit to the second entity based on the transport information a different identifier of the different memory location.

13. The article of manufacture of claim 12, wherein the machine-accessible medium further comprises sequences of instructions that, when executed, cause the electronic system to:  
receive the different identifier of the different memory location from the second entity;  
retrieve from the different memory location the identifier of the memory location of the message; and  
provide the identifier of the memory location of the message to the second entity.

1           14.     The article of manufacture of claim 13, wherein the sequences of  
2     instructions that, when executed, cause the electronic system to receive from the first  
3     entity the transport information and the identifier of the memory location of the message  
4     to the second entity comprise sequences of instructions that, when executed, cause the  
5     electronic system to receive from a client software application the transport information  
6     and the identifier of the memory location of the message to the second entity.

1           15.     The article of manufacture of claim 14, wherein the sequences of  
2     instructions that, when executed, cause the electronic system to receive from the first  
3     entity the transport information and the identifier of the memory location of the message  
4     to the second entity comprise sequences of instructions that, when executed, cause the  
5     electronic system to receive from the first entity the transport information and the  
6     identifier of the memory location of the message to a server software application.

1           16.     The article of manufacture of claim 15, wherein the sequences of  
2     instructions that, when executed, cause the electronic system to receive from the first  
3     entity the transport information and the identifier of the memory location of the message  
4     to the second entity comprise sequences of instructions that, when executed, cause the  
5     electronic system to receive from the first entity the transport information and the  
6     identifier of a serialized data stream (SDS) to the second entity.

1           17.     The article of manufacture of claim 16, wherein the sequences of  
2     instructions that, when executed, cause the electronic system to store in the different

memory location the transport information and the identifier of the memory location of the message comprise sequences of instructions that, when executed, cause the electronic system to store in a different SDS the transport information and the identifier of the memory location of the message.

18. The article of manufacture of claim 17, wherein the sequences of instructions that, when executed, cause the electronic system to receive from the first entity the transport information and the identifier of the memory location of the message to the second entity comprise sequences of instructions that, when executed, cause the electronic system to receive from the first entity the transport information and a token of the memory location of the message to the second entity.

19. The article of manufacture of claim 18, wherein the sequences of instructions that, when executed, cause the electronic system to transmit to the second entity based on the transport information the different identifier of the different memory location comprise sequences of instructions that, when executed, cause the electronic system to transmit to the second entity based on the transport information a different token of the different memory location.

20. An apparatus comprising:  
a client side outgoing channel component that receives from a client transport information and a message SDS token of a message SDS, packages the message SDS

4 token and the transport information in an envelope SDS and transports an envelope SDS  
5 token to a server;

6 a server side incoming channel component that receives the envelope SDS from  
7 the server, extracts the message SDS token from the envelope SDS and provides the  
8 message SDS token to the server;

9 a server side outgoing channel component that receives from the server a reply  
10 SDS token of a reply SDS containing a reply to the message, stores the reply SDS token  
11 in a response SDS and transports a response SDS token to the client; and

12 a client side incoming channel component that receives from the client the  
13 response SDS token, extracts the reply SDS token from the response SDS and provides  
14 the reply SDS token to the client.

1 21. The apparatus of claim 20, wherein the server side incoming channel  
2 component extracts the transport information from the envelope SDS and provides the  
3 transport information to the server.

1 22. The apparatus of claim 21, wherein the message SDS contains a message  
2 from the client requesting information from a service performing tasks as part of the  
3 server.